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L2	3	(C adj1 sharp) and framework and (data adj1 mining)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/01/12 18:55
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L5	0	717/104.ccls. and(C adj1 sharp) and framework and (data adj1 mining)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/01/12 18:56
L6	2	705/27-28.ccls. and(C adj1 sharp) and framework and (data adj1 mining)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/01/12 18:56


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1 [PerfExplorer: A Performance Data Mining Framework For Large-Scale Parallel Computing](#)

Kevin A. Huck, Allen D. Malony

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available: [pdf\(2.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Parallel applications running on high-end computer systems manifest a complexity of performance phenomena. Tools to observe parallel performance attempt to capture these phenomena in measurement datasets rich with information relating multiple performance metrics to execution dynamics and parameters specific to the application-system experiment. However, the potential size of datasets and the need to assimilate results from multiple experiments makes it a daunting challenge to not only process t ...

2 [DB-3 \(databases\): data mining: Framework and algorithms for trend analysis in massive temporal data sets](#)

Sreenivas Gollapudi, D. Sivakumar

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: [pdf\(235.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mining massive temporal data streams for significant trends, emerging buzz, and unusually high or low activity is an important problem with several commercial applications. In this paper, we propose a framework based on relational records and metric spaces to study such problems. Our framework provides the necessary mathematical underpinnings for this genre of problems, and leads to efficient algorithms in the stream/sort model of massive data sets (where the algorithm makes passes over the d ...

Keywords: data stream algorithms, hierarchically partitioned data, metric approximations, taxonomies, trend analysis

3

[Research track poster: A generalized framework for mining spatio-temporal patterns in scientific data](#)

 Hui Yang, Srinivasan Parthasarathy, Sameep Mehta
August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**
Publisher: ACM Press

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present a general framework to discover spatial associations and spatio-temporal episodes for scientific datasets. In contrast to previous work in this area, features are modeled as geometric objects rather than points. We define multiple distance metrics that take into account objects' extent and thus are more robust in capturing the influence of an object on other objects in spatial neighborhood. We have developed algorithms to discover four different types of spatial object ...

Keywords: scientific data, spatial object association, spatio-temporal association/episode

4 Technical opinion: Component-based data mining frameworks

 Fernando Berzal, Ignacio Blanco, Juan-Carlos Cubero, Nicolas Marin
December 2002 **Communications of the ACM**, Volume 45 Issue 12

Publisher: ACM Press

Full text available:  pdf(110.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 html(18.89 KB)

OLAP Vs. OLTP in the middle tier.

5 Declarative data mining: A framework for data mining and KDD

 Ingolf Geist
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press

Full text available:  pdf(552.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The KDD process is a non-trivial, iterative, interactive and multi-step process, that requires the development of a unifying model. This model have to ensure an uniform description of data and patterns and the control of the manipulation of the data and patterns. Thus, the model defines operations within the pattern and data, as well as transition operations between data and patterns. This paper proposes a framework consisting of a model view, a data view and a process view. It focuses on the mod ...

Keywords: constraint databases, knowledge discovery in databases, mining model

6 Research sessions: data mining applications: Cost-based labeling of groups of mass spectra

 Lei Chen, Zheng Huang, Raghu Ramakrishnan
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**
Publisher: ACM Press

Full text available:  pdf(351.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We make two main contributions in this paper. First, we motivate and introduce a novel class of data mining problems that arise in labeling a group of mass spectra, specifically for analysis of atmospheric aerosols, but with natural applications to market-basket datasets. This builds upon other recent work in which we introduced the problem of labeling a single spectrum, and is motivated by the advent of a new generation of Aerosol

Time-of-Flight Spectrometers, which are capable of generating ma ...

7 **Research track posters: A microeconomic data mining problem: customer-oriented catalog segmentation**

 Martin Ester, Rong Ge, Wen Jin, Zengjian Hu

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available:  pdf(196.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The microeconomic framework for data mining [7] assumes that an enterprise chooses a decision maximizing the overall utility over all customers where the contribution of a customer is a function of the data available on that customer. In Catalog Segmentation, the enterprise wants to design k product catalogs of size r that maximize the overall number of catalog products purchased. However, there are many applications where a customer, once attracted to an enterprise, would purchase more products ...

Keywords: catalog segmentation, clustering, microeconomic data mining

8 **Data mining (DM): Expanding the taxonomies of bibliographic archives with persistent long-term themes**

 Rene Schult, Myra Spiliopoulou

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  pdf(210.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As document collections accumulate over time, some of the discussion subjects in them become outfashioned, while new ones emerge. In this paper, we address the challenge of finding such emerging *and persistent* "themes", i.e. subjects that live long enough to be incorporated into a taxonomy or ontology describing the document collection. Our method is based on similarity-based clustering and cluster label construction and focusses on the identification of cluster labels that "survive" cha ...

Keywords: clustering, labeling, time series

9 **A framework for constructing features and models for intrusion detection systems**

 Wenke Lee, Salvatore J. Stolfo

November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  pdf(187.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, we need a more systematic and automated IDS development process rather than the pure knowledge encoding and engineering approaches. This article describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Intrusion ...

Keywords: data mining, feature construction, intrusion detection

10 **A framework for privacy preserving classification in data mining**

Md. Zahidul Islam, Ljiljana Brankovic
January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32 ACSW Frontiers '04**

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(365.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Nowadays organizations all over the world are dependent on mining gigantic datasets. These datasets typically contain delicate individual information, which inevitably gets exposed to different parties. Consequently privacy issues are constantly under the limelight and the public dissatisfaction may well threaten the exercise of data mining and all its benefits. It is thus of great importance to develop adequate security techniques for protecting confidentiality of individual values used for dat ...

Keywords: data mining, data security, noise addition, privacy, statistical database

11 Multi Relational Data Mining (MRDM): Scalability and efficiency in multi-relational data mining

Hendrik Blockeel, Michèle Sebag

July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Efficiency and Scalability have always been important concerns in the field of data mining, and are even more so in the multi-relational context, which is inherently more complex. The issue has been receiving an increasing amount of attention during the last few years, and quite a number of theoretical results, algorithms and implementations have been presented that explicitly aim at improving the efficiency and Scalability of multi-relational data mining approaches. With this article we attempt ...

12 Data mining and aggregation: Enhanced mining of association rules from data cubes

Riadh Ben Messaoud, Sabine Loudcher Rabaséda, Omar Boussaid, Rokia Missaoui

November 2006 **Proceedings of the 9th ACM international workshop on Data warehousing and OLAP DOLAP '06**

Publisher: ACM Press

Full text available: [pdf\(469.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

On-line analytical processing (OLAP) provides tools to explore and navigate into data cubes in order to extract interesting information. Nevertheless, OLAP is not capable of explaining relationships that could exist in a data cube. Association rules are one kind of data mining techniques which finds associations among data. In this paper, we propose a framework for mining inter-dimensional association rules from data cubes according to a *sum-based aggregate measure* more general than simpl ...

Keywords: OLAP, association rules, data cubes

13 Research track papers: Mining, indexing, and querying historical spatiotemporal data

Nikos Mamoulis, Huiping Cao, George Kolios, Marios Hadjieleftheriou, Yufei Tao, David W. Cheung

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: [pdf\(347.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In many applications that track and analyze spatiotemporal data, movements obey periodic patterns; the objects follow the same routes (approximately) over regular time intervals. For example, people wake up at the same time and follow more or less the same route to their work everyday. The discovery of hidden periodic patterns in spatiotemporal data, apart from unveiling important information to the data analyst, can facilitate data management substantially. Based on this observation, we propose ...

Keywords: indexing, pattern mining, spatiotemporal data, trajectories

14 Web Data Mining: Effective personalization based on association rule discovery from web usage data

Barnshad Mobasher, Honghua Dai, Tao Luo, Miki Nakagawa

November 2001 **Proceedings of the 3rd international workshop on Web information and data management WIDM '01**

Publisher: ACM Press

Full text available: [pdf\(521.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To engage visitors to a Web site at a very early stage (i.e., before registration or authentication), personalization tools must rely primarily on clickstream data captured in Web server logs. The lack of explicit user ratings as well as the sparse nature and the large volume of data in such a setting poses serious challenges to standard collaborative filtering techniques in terms of scalability and performance. Web usage mining techniques such as clustering that rely on offline pattern discover ...

Keywords: association rules, collaborative filtering, personalization, web usage mining

15 Industrial and government applications track posters: A component-based framework for knowledge discovery in bioinformatics

Julien Etienne, Bernd Wachmann, Lei Zhang

August 2006 **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**

Publisher: ACM Press

Full text available: [pdf\(994.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Motivation: In the field of bioinformatics there is an emerging need to integrate all knowledge discovery steps into a standardized modular framework. Indeed, component-based development can significantly enhance reusability and productivity for short timeline projects with a small team. We present Interactive Knowledge Discovery and Data mining (*iKDD*), an application framework written in Java that was specifically designed for these purposes. Results: *iKDD* consists of a component-b ...

Keywords: bioinformatics, data mining, workflow

16 Data mining: A partial join approach for mining co-location patterns

Jin Soung Yoo, Shashi Shekhar, John Smith, Julius P. Kumquat

November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems GIS '04**

Publisher: ACM Press

Full text available: [pdf\(196.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Spatial co-location patterns represent the subsets of events whose instances are frequently located together in geographic space. We identified the computational bottleneck in the execution time of a current co-location mining algorithm. A large fraction

of the join-based co-location miner algorithm is devoted to computing joins to identify instances of candidate co-location patterns. We propose a novel <i>partial-join</i> approach for mining co-location patterns efficiently. It trans ...

Keywords: association rule, co-location, join, spatial data mining

17 Multi Relational Data Mining (MRDM): State of the art of graph-based data mining 

 Takashi Washio, Hiroshi Motoda

July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The need for mining structured data has increased in the past few years. One of the best studied data structures in computer science and discrete mathematics are graphs. It can therefore be no surprise that graph based data mining has become quite popular in the last few years. This article introduces the theoretical basis of graph based data mining and surveys the state of the art of graph-based data mining. Brief descriptions of some representative approaches are provided as well.

Keywords: data mining, graph, graph-based data mining, path, structured data, tree

18 Monitoring data streams: A framework for diagnosing changes in evolving data 

 streams

Charu C. Aggarwal

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available:  pdf(312.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, the progress in hardware technology has made it possible for organizations to store and record large streams of transactional data. This results in databases which grow without limit at a rapid rate. This data can often show important changes in trends over time. In such cases, it is useful to understand, visualize and diagnose the evolution of these trends. When the data streams are fast and continuous, it becomes important to analyze and predict the trends quickly in online fa ...

19 Data mining, hypergraph transversals, and machine learning (extended abstract) 

 Dimitrios Gunopulos, Heikki Mannila, Roni Kharon, Hannu Toivonen

May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems PODS '97**

Publisher: ACM Press

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Reviewed articles: An internet routing forensics framework for discovering rules of abnormal BGP events 

 Jun Li, Dejing Dou, Zhen Wu, Shiwoong Kim, Vikash Agarwal

October 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 5

Publisher: ACM Press

Full text available:  pdf(310.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Abnormal BGP events such as attacks, misconfigurations, electricity failures, can cause anomalous or pathological routing behavior at either global level or prefix level, and thus

must be detected in their early stages. Instead of using ad hoc methods to analyze BGP data, in this paper we introduce an Internet Routing Forensics framework to systematically process BGP routing data, discover rules of abnormal BGP events, and apply these rules to detect the occurrences of these events. In particula ...

Keywords: abnormal BGP events, blackout, data mining, internet worms, routing forensics

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